

POTTER

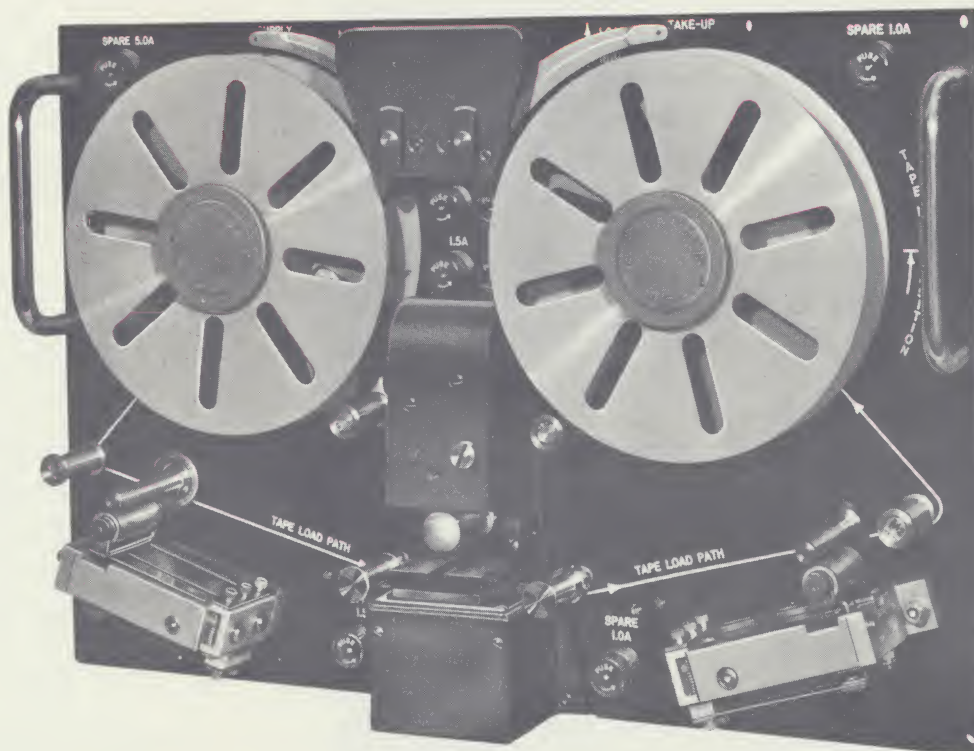
**PRODUCT
DATA
2-211**

PSR-200 PERFORATED TAPE READER AND SPOOLER



FEATURES

- Photoelectric Reading with Silicon Solar Cells
- Bidirectional Tape Speeds to 200 Characters/Second
Rewind to 450 Characters/Second
- Rewind Time Less Than 3 minutes for 500 feet
- Rugged Construction, Completely Transistorized Silicon Semiconductors
- Individual Sensitivity Adjustments
- Military Approved to Meet MIL-T-21200C



DESCRIPTION

The Potter Model PSR-200 Perforated Tape Reader and Spooler is a bidirectional, 200 character per second photoelectric tape reader and spooler. The unit is operable as both a reader and spooler for easy adaptation to a variety of OEM applications, including computer programming, process and industrial numerical control.

Self-contained, regulated power supply, amplifier and Start/Stop circuits are completely transistorized. All semiconductors are silicon. Individual and sprocket amplifiers contain individual sensitivity adjustments. Read amplifiers, control circuits, and the read-head lamp are supplied from feedback-type

regulated power supplies. All connections are made through a Cannon DDM-50P connector. The PSR-200 can be operated in any position, and almost all operations are externally controlled. The unit is designed for standard 19" relay racks.

PERFORMANCE SPECIFICATIONS

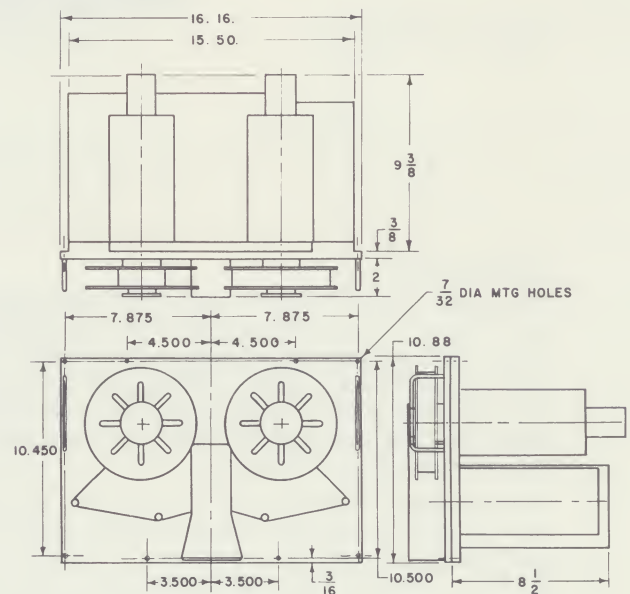
The PSR-200 Perforated Tape Reader and Spooler is designed to meet applicable environmental requirements of MIL-T-21200C for Class 2 equipment. Ability to operate in and pass the following environments is dependent upon customer-supplied mounting and enclosure: sand and dust, explosion, rain, salt, fog, R.F.I.

EFFECTIVE: FEBRUARY 1, 1965

SPECIFICATIONS

TAPE SPEED	200 char/sec., bidirectional (standard)
Rewind Speed	450 char/sec., nominal
Rewind Time	Less than 3 minutes for 500 feet
TAPE STORAGE CAPACITY	500 feet of 2.5 mil aluminum mylar tape, or 300 feet of 4.7 mil paper mylar tape on 6-inch diameter reels
TAPE WIDTH	1 inch
TAPE TRANSPARENCY	40% maximum transmittance. For maximum reliability in military environments, opaque aluminum mylar tape should be used
NUMBER OF CHANNELS	8, standard; 5, 6 and 7, optional
START TIME (To reach next character)	30 milliseconds, maximum, over complete temperature range
STOP DISTANCE	Stops on character in normal speed. Stops within 2 characters of stop character in rewind speed
COMMAND LINES	Three command lines are provided. Each line requires a level type signal from an NPN inverter stage. Inverter to have a supply voltage of +13 volts or greater and be capable of sinking 10 ma or greater from command line when transistor is in saturation (Vsat., maximum = +1 volt or less at 10 ma)
FWD/REV LINE	FWD: 0V; REV: +V
STOP/START LINE	STOP: +V; START: 0V
LOW SPEED/ HIGH SPEED LINE	LOW SPEED: +V; HIGH SPEED: 0V
INFORMATION OUTPUTS	Sprocket and information channel outputs are level type from NPN inverters. In the hole condition, transistor is on and capable of sinking 25 ms, maximum, from customer load. In the no hole condition, transistor is off and output line rises to +15 volts through 1 meg-ohm
MACHINE CONDITION	Low Tape left } two form Low Tape right } C contacts Tape break left } two form Tape break right } C contacts Tape load left } two form Tape load right } A contacts
POWER REQUIREMENTS	27 volts DC, 3 amps; 115V, 400 cycles, single phase at 80 watts. (60 cycle available on special order)
DIMENSIONS	16.16" W x 10.88" H x 11.75" D
NET WEIGHT	55 lbs. (without cabinet)

PIN NUMBER	DESIGNATION
1	Channel 1 output
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	Sprocket
10	Shield
11	Circuit ground
12	Chassis ground
13	Channel 1 test point
14	2
15	3
16	4
17	5
18	6
19	7
20	8
21	Sprocket
22	Stop/Start
23	Forward/Reverse
24	High-Speed/Low-Speed
25	Common
26	NO
27	NC
28	NO
29	NC
48	Common
30	Common
31	NO
32	NC
33	NO
34	NC
49	Common
35	Common
36	NO Left
37	NO Right
38	
39	
40	
41	
42 thru 47 and 50	Spares



Information subject to change without notice



POTTER INSTRUMENT COMPANY, INC.

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